

SB1630PT – SB1660PT

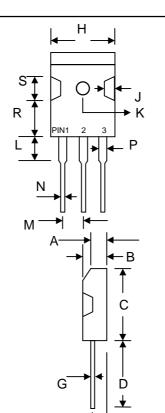
16A SCHOTTKY BARRIER RECTIFIER

Features

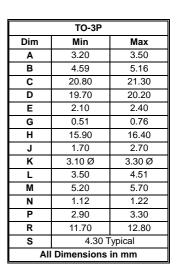
- Schottky Barrier Chip
- Guard Ring for Transient Protection
- High Current Capability, Low Forward
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O

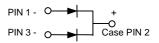
Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-750. Method 2026
- Polarity: As Marked on Body
- Weight: 5.6 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



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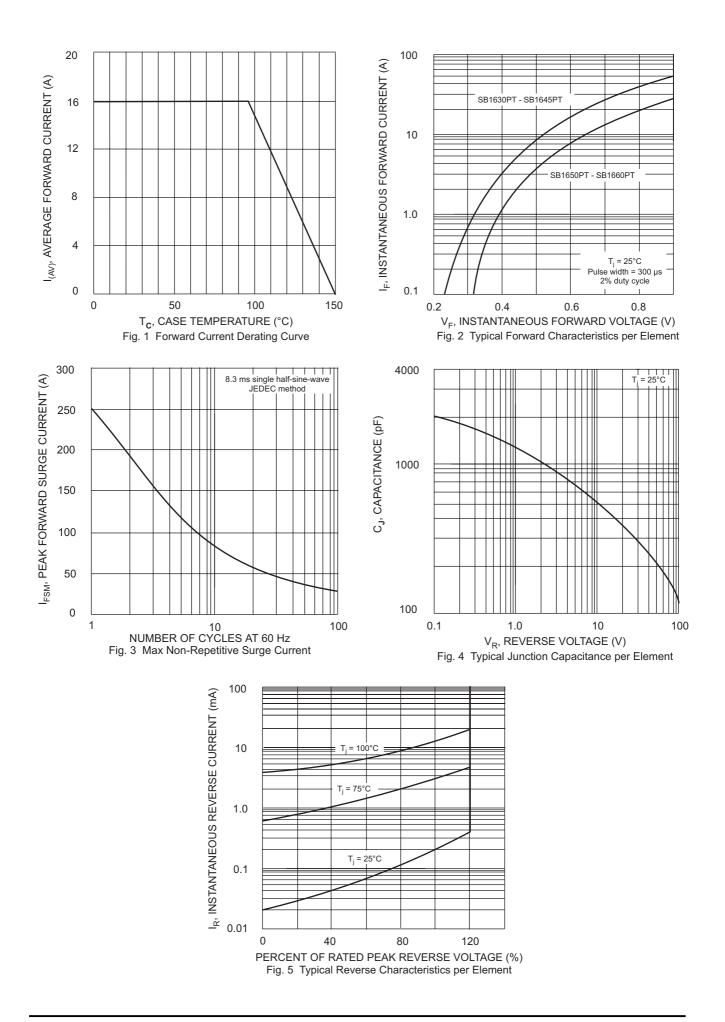
Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	SB 1630PT	SB 1635PT	SB 1640PT	SB 1645PT	SB 1650PT	SB 1660PT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	30	35	40	45	50	60	V
RMS Reverse Voltage	VR(RMS)	21	24.5	28	31.5	35	42	V
Average Rectified Output Current $@T_c = 95$	°C Io	16				А		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	250			A			
Forward Voltage $@I_F = 8.0$	DA VFM	0.55 0.70			70	V		
Peak Reverse Current $@T_A = 25$ At Rated DC Blocking Voltage $@T_A = 10$		0.5 50			mA			
Typical Junction Capacitance (Note 1)	Cj	700					pF	
Typical Thermal Resistance Junction to Case (Note	2) R θ JC	3.5				K/W		
Operating and Storage Temperature Range	Тj, Tsтg	-65 to +150					°C	

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance junction to case mounted on heatsink.



ORDERING	INFORMATION
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Product No.	Package Type	Shipping Quantity
SB1630PT	TO-3P	30 Units/Tube
SB1635PT	TO-3P	30 Units/Tube
SB1640PT	TO-3P	30 Units/Tube
SB1645PT	TO-3P	30 Units/Tube
SB1650PT	TO-3P	30 Units/Tube
SB1660PT	TO-3P	30 Units/Tube

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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